

Title (en)

Monopole antenna that can easily be reduced in height dimension

Title (de)

Monopolantenne mit einfach zu reduzierender Höhendimension

Title (fr)

Antenne monopole de hauteur facilement réductible

Publication

EP 1306924 A2 20030502 (EN)

Application

EP 02257404 A 20021024

Priority

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- JP 2001326554 A 20011024
- JP 2001326582 A 20011024
- JP 2001326587 A 20011024
- JP 2001342315 A 20011107

Abstract (en)

There are provided a dielectric substrate (2) that erects from a ground surface (1), and a radiation conductor (3) that is provided on a surface of the dielectric substrate so as to extend in the vertical direction. The bottom end of the radiation conductor is connected to a feeder line (4). The radiation conductor has a bottom portion and a top portion that is distant from the ground surface and is wider than the bottom portion. Increasing the capacitance by making wide the top portion (capacitive region), having a large voltage variation, of the radiation conductor in this manner lowers the resonance frequency. Therefore, a height dimension of the radiation conductor for attaining resonance at a desired frequency can be made much smaller than in conventional monopole antennas. <IMAGE> <IMAGE> <IMAGE>

IPC 1-7

H01Q 9/36; H01Q 1/38; H01Q 5/00

IPC 8 full level

H01Q 1/38 (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/40** (2015.01); **H01Q 9/36** (2006.01)

CPC (source: EP US)

H01Q 1/38 (2013.01 - EP US); **H01Q 5/40** (2015.01 - EP US); **H01Q 9/36** (2013.01 - EP US)

Cited by

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